

PREPARATION OF LIQUID-SWELLING POLYMER

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Abstract

PURPOSE: To attempt to use the heat of neutralization as a thermal energy for temp. rise until starting polymn. by elevating the temp. of a monomer soln. with the heat of neutralization generated when a neutralized product of an ethylenically unsatd. monomer with an acidic functional group is formed in manufacturing the title polymer by polymerizing said neutralized product in a vapor phase.

CONSTITUTION: A monomer soln. wherein a neutralized product of an ethylenically unsatd. monomer with an acidic functional group (e.g. acrylic acid) is a main component is fed into a vapor phase consisting of one or more gases which are substantially inert to polymn. (e.g. steam atmosphere) and the title polymer is obtd. by polymerizing it, after said unsatd. monomer has been neutralized with e.g. an alkali metal hydroxide (e.g. NaOH) and the temp. of said monomer soln. is elevated with the heat of neutralization generated when a neutralized product is formed.
